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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,381	12/12/2003	Robert Vincent Faller	7858MRR	9771
27752 THE DDOCTE	7590 12/03/200 CR & GAMBLE COMP	EXAMINER		
INTELLECTUAL PROPERTY DIVISION - WEST BLDG. WINTON HILL BUSINESS CENTER - BOX 412 6250 CENTER HILL AVENUE			KRASS, FREDERICK F	
			ART UNIT	PAPER NUMBER
CINCINNATI			1614	
			MAIL DATE	DELIVERY MODE
			12/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application	No.	Applicant(s)			
		10/734,381		FALLER ET AL.			
		Examiner		Art Unit			
		Frederick Kra		1614			
Period fo	The MAILING DATE of this communication app or Reply	pears on the co	over sheet with the co	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event, will apply and will ex	COMMUNICATION however, may a reply be tim xpire SIX (6) MONTHS from tion to become ABANDONED	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on <u>18 September 2007</u> .						
• —	This action is FINAL. 2b) This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quay	<i>le</i> , 1935 C.D. 11, 45	93 O.G. 213.			
Disposit	ion of Claims		•				
4)⊠	1)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
	4a) Of the above claim(s) 7-9 is/are withdrawn from consideration.						
•=	Claim(s) is/are allowed.						
	Claim(s) <u>1-6 and 10</u> is/are rejected.						
•	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
8)	Claim(s) are subject to restriction and/o	n election req	ullement.				
Applicat	ion Papers						
. —	The specification is objected to by the Examine						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
441	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)[The oath or declaration is objected to by the Ex	kammer. Note	the attached Office	Action of John PTO-152.			
Priority	under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority unde	r 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
·	see the attached detailed office dotton for a not	or the contine	a copied net receive	u .			
Attachmer							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4)) Interview Summary Paper No(s)/Mail Da				
3) 🔯 Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 10/31/07.		Notice of Informal P				

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Previous Rejections

Unless specifically repeated/maintained <u>infra</u>, all previous rejections are withdrawn.

Comment Re. Rejoinder

Applicant's request to rejoin non-elected claims 7 to 9 (remarks, page 6, fifth paragraph) is noted, but since the pending independent claim remains rejected this issue will be held in abeyance until such time as the claims are ready to be allowed.

Claim Objection, Failure to Further Limit

Claim 3 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Since claim 2 has been amended to recite particular species of diphosphonate/acrylate polymers, the recitation of the broader genus in dependent claim 3 is now improper. Correction is required.

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Written Description Rejection (New Matter)

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 4-6 and 10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The instant specification states at page 8, lines 5-7 that:

Suitable polymers include the diphosphonate/acrylate polymers supplied by Rhodia under the designation ITC 1087 (Average MW 3000-60,000) and Polymer 1154 (Average MW 6,000-55,000).

The instant specification also states in the first paragraph of page 7 that:

Preferred polymers include the water-soluble copolymers of vinylphosphonic acid and acrylic acid and salts thereof disclosed in GB 1,290,724 wherein the copolymers contain from about 10% to about 90% by weight vinylphosphonic acid and from about 90% to about 10% by weight acrylic acid, more particular wherein the copolymers have a weight ratio of vinylphosphonic acid to acrylic acid of 70% vinylphosphonic acid to 30% acrylic acid; 50% vinylphosphonic acid to 50% acrylic acid; or 30% vinylphosphonic acid to 70% acrylic acid. Other preferred polymers include the water soluble polymers disclosed by Zakihani and Davis prepared by copolymerizing disphosphonate or polyphosphonate monomers having one or more unsaturated C=C bonds (e.g., vinylidine-1,1-diphosphonic acid and 2-(hydroxyphosphinyl)ethylidene-1,1-diphosphonic acid), with at least one further compound having unsaturated C=C bonds (e.g., acrylate and methacrylate monomers)...

The specification thus provides support for diphosphonate/acrylate polymers having molecular weights in the range of 3000 to 60,000; it does provide any specific description however, of other polymers having molecular weights in that range. Accordingly, no support is

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seen for the polymers now recited in claim 1 which are produced from vinylphosphonic acid (the first monomer listed at the ninth line of the claim), since that is a monophosphonic, rather than disphosphonic, species.

Nonstatutory ("Obviousness-Type") Double Patenting Rejection

Claims 1-6 and 10 were provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1-4 of commonly-assigned copending Application No. 10/737,425 in view of Gaffar et al (USP 5,032,386).

This rejection is maintained pending submission of the promised Terminal Disclaimer. (Remarks, page 6, third and fourth paragraphs).

Allowable Subject Matter

Presuming submission of a properly executed Terminal Disclaimer, the following would apply:

1) Claim 2 would be objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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2) Claim 1 would be allowable were the species "vinylphosphonic acid" (ninth line of the claim) to be deleted.

Action is Final, Necessitated by Amendment

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick Krass whose telephone number is (571) 272-0580. The

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examiner can normally be reached at (571) 272-0580 on Monday through Friday from 9:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, can be reached at (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Frederick Krass Primary Examiner Art Unit 1614